

WATER DISTIRBUTION SYSTEM EXTENSION OR MODIFICATION APPLICATION (INSTRUCTIONS)

The City of Concord will not accept this application unless all of the following instructions are adhered to: Prior to the submittal of an application package for public and privately maintained and operated water distribution system extensions/modifications, the civil engineering design drawings shall be approved through the appropriate technical review process as required by the Director of Engineering and defined by the City of Concord Development Ordinance. The design drawings must be prepared in accordance with Subchapter 15A NCAC 18C of the North Carolina Administrative Code, the Water and Sewer Authority of Cabarrus County's "Standard Specifications for Wastewater Collection and Water Distribution Construction for Cabarrus County," the City of Concord Code of Ordinances, and good engineering practices. Failure to submit all of the required items will lead to additional fees and processing and review time for the application.

A. Application Form: (All Application Packages): A SEPARATE APPLICATION MUST BE

	COMPLETED FOR EACH PUBLIC WATER SUPPLY SYSTEM AND PRIVATE
	WATER SERVICE SYSTEMS. DO NOT COMBINE THE PUBLIC AND PRIVATE
	WATER SYSTEM INFORMATION ON THIS APPLICATION. (See section D(1))
been	Submit one original and one copy of the completed and appropriately executed application form. Incomplete ications may result in the application being returned. The City of Concord will only accept application packages that have fully completed with all applicable items addressed. The project name should be consistent with the project name on the plans and supporting data. If this project involves a modification of an existing "Authorization to Construct," submit one copy of the existing "Authorization to Construct." Please note that modifications must meet current design standards.
	Application Fee: (All Application Packages): Submit a check made payable to the "City of Concord" in the amount as required by the current "City of Concord Fiscal Year Fees and Charges Schedule" A copy current City of Concord Fiscal Year Fees and Charges Schedule can be viewed on the City of Concord web page at www.ci.concord.nc.us under "Departments" – "Finance" - "Adopted Fees Schedule"

and Sewer Authority of Cabarrus County's "Standard Specifications for Wastewater Collection and Water Distribution Construction for Cabarrus County" and the City of Concord Development Ordinance and Code of Ordinances Utilities Article and Technical Specifications must be adhered to without exception. Use of the Water and Sewer Authority of Cabarrus County's (WSACC) "Standard Specifications for Wastewater Collection and Water Distribution Construction for Cabarrus County," and the City of Concord Development Ordinance, Code of Ordinances Chapter 62 and Technical Standards must be noted on each sheet of the plans.

• A current copy of the Water and Sewer Authority of Cabarrus County's (WSACC) "Standard Specifications for Wastewater

Submit four (4) sets of the approved detailed plans signed, sealed, and dated by a N.C. Professional Engineer. The Water

- A current copy of the Water and Sewer Authority of Cabarrus County's (WSACC) "Standard Specifications for Wastewater Collection and Water Distribution Construction for Cabarrus County can be viewed on the WSACC web page at www.wsacc.org under "Departments" "Engineering" "Standard Specifications" or a copy can be obtained from the WSACC.
- A current copy of the City of Concord Code of Ordinances can be viewed on the City of Concord web page at www.ci.concord.nc.us under "Government" "City Ordinance".
- A current copy of the City of Concord Development Ordinances can be viewed on the City of Concord web page at www.ci.concord.nc.us under "Departments" "Development Services" "Development Ordinance".
- For a current copy of the City of Concord details and other technical standards, please access the City of Concord web page at www.ci.concord.nc.us under "Departments" "Engineering" "Forms and Downloads" or a copy can be obtained from the Engineering Department.
- Plans must include the following minimum items: a general location map, a North arrow, street and waterbody names, a scale, the 100-year flood elevation, existing rights-of-way and easements, setback limits, elevation control markers and

C. **Detailed Plans and Specifications:** (All Application Packages):

- -	monuments, stationing, pipe material, fittings, plan and profile views of the water distribution system extension as well as the proximity of the water line to other (proposed/existing) utilities and natural features, structures, sedimentation/erosion control, storm drainage systems, and detail drawings of all items pertinent to the water distribution system extension. Depict minimum separations required in 15A NCAC 18C .0906 on the plans, and note the use of ferrous pipe material with joints equivalent to water main standards if minimum separations are not met. Minimum cover over water lines in accordance with 15A NCAC 18C .0904 and the City of Concord Code of Ordinances must also be shown clearly on the plans. Cross connection control in accordance with the City of Concord Water Resource Department's "Backflow Prevention Ordinance and Cross Connection Control Ordinance" must be specified on the drawings and details provided. A copy current City of Concord Backflow Manual and details can be viewed on the City of Concord web page at www.ci.concord.nc.us under "Departments" – "Water Resources" – "Backflow Prevention Manual" or a copy can be obtained from the Water Resources Department. Plans must not be labeled with preliminary phrases (e.g., FOR REVIEW ONLY, NOT FOR CONSTRUCTION, etc.) that indicate that they are anything other than final plans.
D.	Engineering Calculations (All Application Packages): Submit two sets of hydraulic design calculations signed, sealed, and dated by a N.C. Professional Engineer for the proposed public water system and domestic service and fire service, as applicable. The proposed extension shall be able to produce the required fire flows, including but not limited to any necessary pumping or storage, throughout the proposed extension without negatively impacting the existing system. Documentation of this ability shall be submitted to the Director of Engineering or his/her designee for approval.
E.	Environmental Assessments (If required – by 15A NCAC 1C .0100): Submit one copy of the Findings of No Significant Impact (FONSI) or Environmental Impact Statement (EIS). Also, include information on any mitigating factor(s) from the Environmental Assessment (EA) that impact the construction of the subject water lines. An EA may also be required for private systems if any public funds are used for the construction of the subject water lines.
F.	City of Concord Water System-Supplied Information Report: Attach a copy of the most current City of Concord Water System-Supplied Information Report to this application. The form can be obtained on the City of Concord Engineering web page under "Forms & Downloads" at www.concordnc.gov Submit one copy

THE COMPLETED APPLICATION PACKAGE, INCLUDING ALL SUPPORTING INFORMATION AND MATERIALS, SHOULD BE DELIVERED TO THE FOLLOWING ADDRESS:

CITY OF CONCORD

Development Services Department
Post Office Box 308

Concord, North Carolina 28026-0308

Telephone Number: (704) 920-5142

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WATER DISTRIBUTION SYSTEM EXTENSION OR MODIFICATION APPLICATION

(THIS FORM MAY BE PHOTOCOPIED FOR USE AS AN ORIGINAL)

TO BE COMPLETED BY THE CITY OF CONCORD

		Project No:							1 1	
		ATC No:								
	Ľ		· ·							
		Project Title:								
		(Project name of title as								
	1.)	indicated on the drawings)								
	1.,									
_		Description of								
ō		project location:	(Cir. Lord of Dodgers) CD 44444 conscionately 44444 Error Cord, West of Frank Cir.							
Ŧ	2.)	project idention	(Site located on (Road name) SR #### approximately #### linear feet (North, South, West or East)of the intersection of Road name (SR ####) and Road Name (SR ####)							
Ĕ		Cabarrus County								
Ĕ		Parcel Identification								
Ę	4.)	Number:				4a.) Parcel Acreage:				
<u></u>					5a.)	Min. Fire Flow				
ぢ	5.)	Site Zoning and use:				n Site Zoning and use)		gpm @ 20 psi		
A. Project Information								% Domestic		
5					(a) Esti	moted Water Hagge		% Commercial		
т.		Area Commercial or			6a.) Estimated Water Usage:			% Industrial		
⋖	6.)	Industrial Building	(sq.	. ft.)				% Other use(Specify)		
		Description of Facility						\		
	7a.)	to be served.	-			7b.) Number of Lots		7c.) Number of Units		
		Additional description								
	7 d.)	information:								
Ē										
끒										
يق	(Name of owner, board, council, authorized official and title)				(Street or Box Number)					
Ξ										
ဍ	(Nov					(9) 9 51 9 1				
2	(Name of owner's company, city, town, corporation, sanitary district, water company or other)				(City, State, Zip Code)					
Ħ		pa garana y			-					
ਲ਼										
≅	(Phone Number)				(Facsimile Number)					
d										
Applicant Information					<u>_</u>					
œ.	(Name and affiliation of contact person,			-		(Email	Address)			
	who can answer questions about application)									

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DSD Case No:

eel	(Typed name of North Card	olina Professional Engineer)	(Company Name)						
Design Engineer Information									
esign Engi Information	(NCPE Registr	ration Number)	(Street or Box Number)						
gn									
esi nfo	(D)		(9) 9 1 71 9 1						
	(Phone I	Number)	(City, State, Zip Code)						
ပ်									
	(Name and affiliatio who can answer questi		(Email Address)						
		_ ` .	ete D-2 & Skip Item D-2a & b.)						
	1.) Water system shall	(Public Water System is any water system that will be City maintained and operated)							
	be:	☐ Private (Comp	Private (Complete D-2 & Items D-2a.)						
			stem that will be applicant maintained and operated)						
		*****IMPORT	ANT*****						
			BLIC WATER SUPPLY SYSTEM AND PRIVATE WATER SERVICE E WATER SYSTEM INFORMATION ON THIS APPLICATION.						
ion	O New								
D. Applicant Information	2.) Project is: Modification (of an existing Authorization to Construct)								
Jrn	If Modification, specify the ATC Number:								
Infc	2a.) If private, applicant w		2b.) If water system is sub-metered, facilities owned by						
٦ţ		nii be: iip (i.e. store, church, single office, etc.)	a (must choose one)						
<u>ica</u>	or	•	☐ Homeowner Assoc./Developer						
opli		townhomes, etc skip Item D(2b)) ownhomes, etc complete Item D(2b)							
Ā	,		<u>" </u>						
Ο.	3.) City of Concord Owner of Water Distribution	ntion System Supplying Potable Water To T	This Project						
	4a.) City of Concord Water		4b.) 01-13-010						
		Name of Water System	Public Water Supply Identification No.						
	4c.) 10-00772 WSMP No:	4d.) September 1, 2010 WSMP Submittal Date:	4d.) Cabarrus County						
	4e.)By my signature below, I, M. Sue Hyde, Director of Engineering, certify that the previously submitted WSMP contains the								
	information required by 15A NCAC 18C .0307(c) for the project defined in the attached engineering plans and specifications.								
		(Signature of Engineering Director)	(Date)						
E. Engineer's Report									
	1a.) 1b.) Owner of the Existing Water Main at Tie-in(s) Existing Water Main Diameter(s)								
	Owner of the Existing W	/ater Main at Tie-in(s) Exi	xisting Water Main Diameter(s)						
		and <u>to be allocated</u> for this particular pr							
		be calculated in accordance with values ands or previously allocated water dem	s defined in table b (1) or by (2) in15A NCAC 18C .0409 (Donand.)						
		,	,						

	 If the water demand is zero, indicate why: Transmission Mains or hydraulic loops where water demand will be allocated in subsequent approvals that connect to this extension Water demand has already been allocated in ATC Number: Rehabilitation or replacement of existing water mains with no new water demand expected (see 15A NCAC 18C to determine if an application is required) 									
Report (Continued)	4.) Provide the water demand calculations used in determining the allocated potable water demand in accordance with the value indicated in Item E(2) <u>AND/OR</u> the design demand for transmission main or hydraulic loop main sizing if zero demand is being requested in Item E(3). Values other than that in defined in table b(1) or by (2) in15A NCAC 18C .0409 must be supported with actual water use data.									
	5.) Summary of water Diameter (in.)	onstructed					ity of the Main-line Valves			
Sontii										
ort ((
Repo	6.) Number of hydrant 7a.) Number of with guard valves air-release valves							Elevation of air-release valves		
er's										
Engineer's										
Eng										
ш	General Water System Hydraulic Information									
	8.) Closest existing fire hydrant - (Include location on hydraulic calculation plans for reference)									
	Road name/location a from project tie-in.	Static Pressure (Pounds per sq. in.)		Flow Rate (gpm)		Residual Pressu (Pounds per sq. i		Flow @ 20 psi (gpm)		
	*(Attach fire test report(s) to application)									
	9.) Applicable Pressure Zone - (Elevated Storage Tank)									
	Name Location Base Elevation				Distance from proposed water system connection. (miles):					
	*(Attach sealed hydraulic calculation report(s) with exhibits to application)									

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	DESIGN COMPLIANCE CERTIFICATION										
	10.) Does the subject water distribution system comply with the (latest Code, Subchapter 15A NCAC 18C, the Water and Sewer Authorit for wastewater Collection and Water Distribution Construction for Code, Code of Ordinances, Policies and Technical Standards; as Yes No If No, to City of Concord Design Standards; criteria and indicate why an exception is recall Culations Pertinent to the exception	version) of State of by of Cabarrus Count Cabarrus County, a applicable? please reference t quested. SUBMIT TV	North Carolinas' Administrative by Standard technical Specifications and the City of Concord Development the pertinent minimum design WO COPIES OF SPECIFICATIONS OR								
~	11.) Have the following permits/certifications been submitted for approval for the proposed water system or the associated project to be served by the water system? If "yes," submit a copy of all applicable permits.										
OTHER ERMITS	US Army Corp 404 or NCDENR DWQ 401wetland permit?	☐ Yes ☐ No	□ N/A								
OT RM	Sedimentation and Erosion Control Plan?	☐ Yes ☐ No	□ N/A								
F. (PE	Stormwater Management Permit?	☐ Yes ☐ No	□ N/A								
	NCDOT ENCROACHMENT?	☐ Yes ☐ No	□ N/A								
	*(Attach a copy of the most current City of Concord W to application. The report can be obtained from the Web page at www.concordnc.gov under "Forms A	e City of Conco	ord Engineering Department								
These protect 317. T local, s under t recommand to start the start that to belie Admin and specific applications.	e plans and specifications cited in the foregoing application, including any provinction of public health is concerned as provided in the rules, standards and criteria, this approval does not address all applicable laws, rules, standards and criteria, state or federal government. This approval is given with the understanding that the care of a competent person, and the operation shall be carried out according mendations of the City of Concord through the delegated authority of Division erasures, additions or alterations of the proposed improvements except those pervoid. This approval does not constitute a warranty of the design, construction of FARE NOT RESPONSIBLE FOR ERRORS IN DESIGNS, CALCULATIONS, DRAW (RETECHNICAL CONSULTANTS, SURVEYORS OR ENGINEERS. THE CITY AND RECTING ANY ERRORS OR DEFICIENCIES IN PLANS SUBMITTED TO THE CITY AND RECTING ANY ERRORS OR DEFICIENCIES IN PLANS SUBMITTED TO THE CITY AND RECTING ANY ERRORS OR DEFICIENCIES IN PLANS SUBMITTED TO THE CITY AND REPORT OF THE CITY AND THE RELIED UPON TO ESTABLISH ANY DUTY OR RELATIONSHIP (SUCH AS A PLAN OR DRAWING. PARTIES USING THIS DOCUMENT SHOULD CONDUCT TO SIGNORS IN RELIANCE ON THIS DOCUMENT. Official copies of plans and specifications accompanying this application and provide the application package and its contents meet all applicable standards of inistrative Code, the Water and Sewer Authority of Cabarrus County Standard specifications as presented. The denial of the issuance of a permit, subject to the cont's proposed activities or plan which will be required in order that the application of the otherwise bar the City from denying a permit, which incorporates such cloudly known by the Director of Engineering or the applicant.	isos in the approval lei ia adopted under the a a, and other approvals a it upon installation of g to best accepted pract of Environmental Hermitted in 15A NCAC refuture operation of the INGS OR STATEMENTY FOR REVIEW AND ATTHE CITY. THE SIGNATHIRD PARTY BENEFOTHEIR OWN REVIEW IN have been sealed a contains sufficient infort of Subchapter 15A NCI Specifications and the provisions in Article denial and the City's plicant may obtain a	etter, are approved insofar as the authority of NCGS 130A-315 and 130A-and licenses that may be required by the such works, its operation shall be placed ctice and in accordance with the salth. C 18C .0306 will make this approval null he water system. THE CITY AND ITS TS SUBMITTED BY APPLICANTS, RESPONSIBLE FOR FINDING OR APPROVAL. THE CITY OF CONCORD ATURE OF THE CITY ENGINEER MAY FICIARY) WITH ANY PARTY USING AND ANALYSIS FOR MAKING and stamped with the cormation to ascertain reasonable grounds CAC 18C, the State of North Carolina's the City of Concord's ordinance, policies le III, Chapter 62 of the City of Concord is estimate of the general changes in the permit. Nothing in such estimate shall								
Signa	nature <u>:</u>	, Date	e <u>: </u>								

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M. Sue Hyde, PE, Director of Engineering

Professional Engineer's Certification:

As a duly registered Professional Engineer in the State of North Carolina, I certify that this application has been reviewed by me and is accurate, complete and consistent with the information supplied in the engineering plans, calculations, and all other supporting documentation to the best of my knowledge. I further attest that to the best of my knowledge the proposed design and supporting documentation has been prepared in accordance with and subject to the Water and Sewer Authority of Cabarrus County's standard specifications; the City of Concord's ordinances, policies, and standard specifications, and the North Carolina Administrative Code for water distribution systems. In the event of conflict between the Water and Sewer Authority of Cabarrus County's standard specifications; the City of Concord's ordinances, policies, and standard specifications, or the North Carolina Administrative Code, the more restrictive requirements shall apply. Although other professionals may have developed certain portions of this submittal package, inclusion of these materials under my signature and seal signifies that I have reviewed this material and have judged it to be consistent with the proposed design. Although the attached City of Concord Water System Supplied information report incorporates data provided by others, inclusion of these materials under my seal signifies that I have reviewed this material and have judged it to be consistent with the proposed design. Note: In accordance with NC General Statutes 143-215.6A and 143-215.6B, any person who knowingly makes any false statement, representation, or certification in any application shall be guilty of a Class 2 misdemeanor, which may include a fine not to exceed \$10,000 as well as civil penalties up to \$25,000 per violation, and referral to the State Board of Registered Professional Engineers and Surveyors.

(Signature of North Carolina Professional Engineer)	=		(Company Name)
(Type Name Signed Above)	-		(Street or Box Number)
(NCPE Registration Number)	-		(City, State, Zip Code)
(Seal & Signature Date)	-		(Email Address)
(Phone Number)	_		(Facsimile Numbers)
Developer's Certification: This application is made under and in full accord with the provision The applicant agrees that no change or deviation from the engineering per made except as allowed by 15A NCAC 18C .0306 or with the wroter correctors, authorized representative. The applicant agrees that a prostatement reflecting that adequate observations during and upon confifice who is under the engineer's supervision, indicates that construinderstand that if all required parts of this application are not complementated, this application package will be returned to me as incomplementation and the applicant. Revised engineering plans and special require additional time for review. Note: In accordance with makes any false statement, representation, or certification in any appearance \$10,000 as well as civil penalties up to \$25,000 per violation	of NCG ng plans itten con ofessiona npletion action wa eted and ete. Any ecification NC Gene olication	and specific nsent and ap all engineer l of construct as complete I that if all re application ons shall co eral Statutes	cations approved by the Division of Environmental Health will proval of the City of Concord Director of Engineering or the icensed to practice in the State of North Carolina shall submittion, by the engineer or by a representative of the engineer's ad in accordance with approved plans and specifications. I equired supporting information and attachments are not a package determined incomplete by the Director of Engineerin institute a re-submittal, shall be accompanied by a new fee, and 143-215.6A and 143-215.6B, any person who knowingly
(Signature of Owner, Manager, Mayor or Chairman)	-		(Street or Box Number)
(Type Name Signed Above)	-		(City, State, Zip Code)
(Phone Number)	-		(Email Address)